#### PATENT COOPERATION TREATY

### **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 004979-00052	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2006/031314	International filing date (day/month/year) 10 August 2006 (10.08.2006)	Priority date (day/month/year) 10 August 2005 (10.08.2005)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant PRESIDENT AND FELLOWS OF HARVARD COLLEGE					

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	3. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44 <i>bis</i> .2).					
		Date of issuance of this report 12 February 2008 (12.02.2008)			

Authorized officer

e-mail: pt04.pct@wipo.int

Athina Nickitas-Etienne

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHO	RITY					
To: ERNEST V. LINEK BANNER & WITCOFF 28 STATE STREET - 28TH FLOOR BOSTON, MA 02109		PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
		(PCT Rule 43 <i>bis</i> .1)				
		Date of mailing (day/month/year) 10 JAN 2007				
Applicant's or agent's file reference	FOR	FOR FURTHER ACTION				
004979-00052		See paragraph 2 below				
International application No.	International filing date (day/mo	(day/month/year) Priority date (day/month/year)				
PCT/US06/31314	10 August 2006 (10.08.2006)		10 August 2005 (10.08.2005)			
International Patent Classification (IPC) or		IPC				
IPC(8): <b>C07D 491/044</b> ( 2007.01); <b>A61K</b> USPC: 548/453;514/414	31/407( 2007.01)					
Applicant						
MYERS ET AL.						
This opinion contains indications relat	ing to the following items:					
Box No. I Basis of the o	pinion					
Box No. II Priority						
Box No. III Non-establisl	nment of opinion with regard to	novelty, inv	entive step and industrial applicability			
Box No. IV Lack of unity	of invention					
Box No. V Reasoned sta applicability;	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docui	nents cited					
Box No. VII Certain defec	ts in the international application	1				
Box No. VIII Certain obser	vations on the international appl	cation				
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450  Facsimile No. (571) 273-3201	Date of completion of the O4 December 2006 (04.	•	Authorized officer  Jason M. Nolan, Ph.D.  Telephone No. (571) 272-4356			

Form PCT/ISA/237 (cover sheet) (April 2005)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US06/31314

Box N	o. I Basis of this opinion					
1. With	1. With regard to the language, this opinion has been established on the basis of:					
$\boxtimes$	the international application in the language in which it was filed					
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
2. With inven	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a.	type of material					
	a sequence listing					
	table(s) related to the sequence listing					
b.	format of material					
	on paper					
	in electronic form					
c.	time of filing/furnishing					
	contained in the international application as filed.					
	filed together with the international application in electronic form.					
	furnished subsequently to this Authority for the purposes of search.					
	Tamished subsequently to this Authority for the purposes of search.					
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additi	onal comments:					
··-						
Dome	ISA/227(Dov. No. 1) (A:1 2005)					

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/31314

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	2,7	YES		
		1, 3-6, 8, 9			
Inventive step (IS)	Claime	NONE	YES		
inventive step (13)		NONE			
Industrial applicability (IA)		NONE NONE	YES NO		
	Ciainis	NONE	NO		
2. Citations and explanations:		······································			
Claims 1, 3-6, 8 & 9 lack novelty under PCT Article	33(2) as being	anticipated by the compounds discle	osed by Palladino et al. (WO		
2005002572 A3, 5/12/ <b>2005</b> ).					
e e e					

Form PCT/ISA/237 (Box No. V) (April 2005)